UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

50	1	40	

7590

06/25/2009

WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East Washington, DC 20005-1503

EXAMINER				
LAO, LUN S				
ART UNIT	PAPER NUMBER			

2614 DATE MAILED: 06/25/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,905	07/24/2006	Shuji Miyasaka	2006 1157A	2000

TITLE OF INVENTION: AUDIO ENCODER AND AUDIO DECODER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/25/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification	correspondence including ed below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees w pondence address;	ill be a and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	Fee pap	(s) Transmittal. Thi ers. Each additiona	is certif I paper.	icate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must	
52349	7590 06/25	/2009	nav			of Mailing or Trans	mission
1030 15th Street Suite 400 East		CK L.L.P.	I he Stat addi tran	reby certify that these Postal Service we ressed to the Mail smitted to the USP.	is Fee(s vith suf Stop TO (57	s) Transmig of Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
Washington, DC	20005-1503						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/586,905	07/24/2006	•	Shuji Miyasaka			2006_1157A	2000
TITLE OF INVENTION	I: AUDIO ENCODER A	ND AUDIO DECODER					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	09/25/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
LAO,	LUN S	2614	381-022000				
CFR 1.363).  Change of corresp Address form PTO/S.  "Fee Address" ind	ence address or indication ondence address (or Chab/122) attached. lication (or "Fee Address or more recent) attached.	nge of Correspondence	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or a 2 registered patent atto- listed, no name will be	3 registered paten vely, e firm (having as a agent) and the namerneys or agents. If	t attorn members of up	er a 2	
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an  (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	COUNT	RY)	ocument has been filed for
Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	oup entity Government
	are submitted:  No small entity discount p  # of Copies	permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched. required fee(s), any de	
	ns SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon	-			
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered a	nttorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
				-			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	itiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indive Chief Information Office COMPLETED FORMS To	etain a benefit by the imated to take 12 ridual case. Any coerr, U.S. Patent and D THIS ADDRESS	he publ minutes omment Tradem S. SENI	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Depo D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,905	07/24/2006 Shuji Miyasaka		2006_1157A	2000	
52349 75	590 06/25/2009	EXAMINER			
WENDEROTH,	LIND & PONACK I	.L.P.	LAO, I	LUN S	
1030 15th Street, N	I.W.		ART UNIT	PAPER NUMBER	
Suite 400 East Washington, DC 2	0005-1503		2614 DATE MAILED: 06/25/200	9	

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 341 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 341 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

10/586,905
Notice of Allowability

Application No.	Applicant(s)
10/586,905	MIYASAKA ET AL.
Examiner	Art Unit
LUN-SEE LAO	2614

	LUN-SEE LAO		2614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address ll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included erewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS IOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative if the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.							
. ☑ This communication is responsive to <u>03-26-2009</u> .							
2. ☑ The allowed claim(s) is/are <u>9,11-14,17 and 19</u> .							
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority uner a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>4.  A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5.  CORRECTED DRAWINGS (as "replacement sheets") must (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in tile. DEPOSIT OF and/or INFORMATION about the depositation of the proper stracked Examiner's comment regarding REQUIREMENT in the proper strack</li></ul>	been received.  been received in Application and the been received in Application of this communication to a second and the best points application.  betted. Note the attached Eas reason(s) why the oath at be submitted.  con's Patent Drawing Revular Second and the second and the best points are according to 37 set of BIOLOGICAL MA	ved in this na ved in this na file a reply co  XAMINER'S or declaration iew ( PTO-94 or in the Offinate drawings CFR 1.121(d). TERIAL mu	emplying with the recomplying	quirements OTICE OF			
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	7. 🛛 Examine	Summary (P o./Mail Date r's Amendme r's Statement	PTO-413),	wance			

Application/Control Number: 10/586,905 Page 2

Art Unit: 2614

### **DETAILED ACTION**

1. This action is in response to the amendment filed 03-26-2009. Claims 9,11, 13, 14, 17 and 19 have been amended and claims 1-8, 10, 15,16 and 18 have been cancelled. and claims 22, 26-27, 29 and 40-41 have been amended. Claims 9, 11-14, 17 and 19 are pending.

#### Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. Authorization for this examiner's amendment was given in a telephone interview with Mr. Mark D. Pratt on June 15, 2009.
- 4. The application has been amended as follows:

Please amended claims 9, 13, 17 and 19 as following:

- 9. (Currently Amended) An audio decoder which decodes a coded signal, said decoder comprising: an obtaining unit configured to obtain coded signals including
- a) a first coded signal obtained by coding a two-channel stereo signal downmixed from a multi-channel signal exceeding two channels,
- b) a second coded signal obtained by coding information for generating a multichannel signal from the stereo signal, and

c) a signal representing a code size of the second coded signal; and a decoding unit configured to decode the obtained coded signals, and to output a stereo signal. wherein said decoding unit includes:

a first coded signal readout unit configured to read the first coded signal out of the obtained coded signals; a code size readout unit configured to read a signal representing a code size of the second coded signal out of the coded signals; and a first decoding unit configured to decode the first coded signal read out by said first coded signal readout unit, and to output the stereo signal,

Wherein said code size readout unit is also configured to first coded signal readout unit being configured to skip remove or skip the second coded signal based on the code size read out by said code size readout unit.

13. (Currently Amended) The audio decoder according to Claim 9, wherein said decoding unit further includes:

a first coded signal readout unit configured to read the first coded signal out of the obtained coded signals;

a first decoding unit configured to decode the first coded signal read out by the first coded signal readout unit, and to output the stereo signal;

a second coded signal readout unit figured to read the second coded signal out of the coded signals; a second decoding unit configured to decode a multi-channel signal based on the read-out first coded signal and the read-out second coded signal; a filter unit configured to perform filter processing to the decoded multi- channel signal

Art Unit: 2614

based on the head-related transfer function, and to output the stereo signal to which virtual surround-sound effect is applied; and

a selecting unit configured to select one of the stereo signal outputted out of the first decoding unit and the stereo signal to which virtual surround-sound effect is applied outputted out of said filter unit.

17 (Currently Amended) An audio decoding method for decoding a coded signal, said method comprising:

obtaining coded signals including a) a first coded signal obtained by coding a two- channel stereo signal downmixed from a multi-channel signal exceeding two channels,

b) a second coded signal obtained by coding information for generating a multi-channel signal from the stereo signal and c) a signal representing a code size of the second coded signal; and decoding the obtained coded signal and outputting a stereo signal, wherein the decoding of the obtained coded signal further includes: reading the first coded signal out of the obtained coded signals via a first coded signal readout unit; reading a signal representing a code size of the second coded signal out of the coded signals via a code size readout unit; the code size readout unit configured to read the signal representing a code size of the second coded signal out of the coded signals; and said code size readout unit is also configured to remove or skip the second coded signal based on the code size read out by said code size readout unit.

Application/Control Number: 10/586,905 Page 5

Art Unit: 2614

decoding the first coded signal read out and outputting the stereo signal, the second coded signal being skipped based on the code size read out.

19. (Currently Amended) A program stored on a computer-readable storage medium for- and used in an audio decoder which decodes a coded signal, said program causing a computer to function as the following respective units: an obtaining unit configured to obtain coded signals including a) a first coded signal obtained by coding a two-channel stereo signal downmixed from a multi-channel signal exceeding two channels, b) a second coded signal obtained by coding information for generating a multi-channel signal from the stereo signal, and c) a signal representing a code size of the second coded signal; and a decoding unit configured to decode the obtained coded signals, and outputs a stereo signal, wherein said program further causes the decoding unit to operate as: a first coded signal readout unit configured to read the first coded signal out of the obtained coded signals; a code size readout unit configured to read a signal representing a code size of the second coded signal out of the coded signals; and a first decoding unit configured to decode the first coded signal read out by said first coded signal readout unit, and to output the stereo signal.

Wherein said code size readout unit is also configured to first coded signal readout unit being configured to skip remove or skip the second coded signal based on the code size read out by said code size readout unit.

# Allowable Subject Matter

5. Claims 9, 11-14, 17 and 19 are allowed.

Application/Control Number: 10/586,905

Art Unit: 2614

# Conclusion

6. Any response to this action should be mailed to:

Mail Stop (explanation, e.g., Amendment or After-final, etc.)

Page 6

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Facsimile responses should be faxed to:

(571) 273-8300

Hand-delivered responses should be brought to:

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lao, Lun-See whose telephone number is (571) 272-7501. The examiner can normally be reached on Monday-Friday from 8:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian, can be reached on (571) 272-7848.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 whose telephone number is (571) 272-2600.

Lao, Lun-See /LUN-SEE LAO/ Examiner, Art Unit 2614 Patent Examiner US Patent and Trademark Office Knox 571-272-7501 Date 06-15-2009

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2614